

Grade 10

(1) Quadratics !!!

(2) Linear Systems

(3) Trigonometry

S.O.H. C.A.T. T.O.A.

Sine law

Cosine law

Zeros

when ball hits ground

break even pts.

pairs of bridge (length)

FACTORED FORM

STANDARD FORM

VERTICE FORM

specific height of pt

maximum height

max revenue

height of bridge

$y = a(x-s)(x-t)$

$Ax^2 + Bx + C = 0$

$b = a(w-h)^2 +$

projectile

economics

engineering (bridges)

Sep 7-10:00 AM

Linear Equations

① $0 = ax + by + c$ Standard Form

② $y = mx + b$ Slope/yint Form

③ $ax + by = c$ two variable Form

① $3x + 2y - 6 = 0$

② $y = \frac{1}{3}x + 2$

③ $3x + 2y = 6$

$x = \text{kg of almonds}$

$y = \text{kg of raisins}$

Feb 4-10:00 AM

Quadratics

Standard Form

$Ax^2 + Bx + C = 0$

Vertex Form

$y = a(x-h)^2 + k$

Factored Form

$y = a(x-s)(x-t)$

- quad formula (find zeros) roots
- factoring/decomposition find roots/zeros
- $\frac{s+t}{2}$ x vertex
- completing the square (vertex)

Feb 4-8:03 AM

Expansion (FOIL)

Completing the Square

F

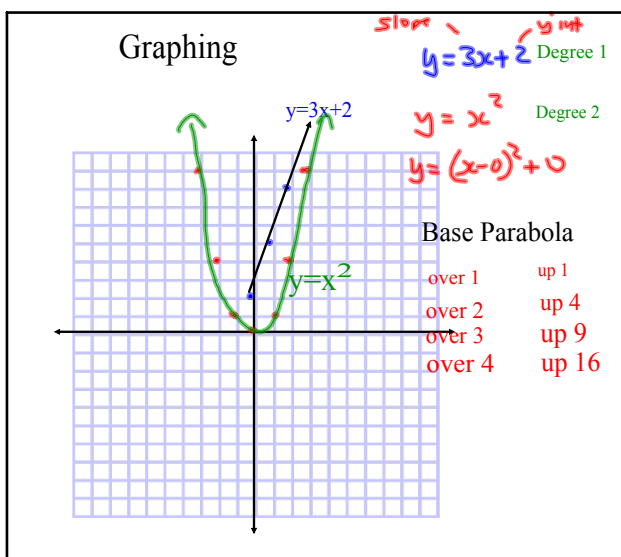
SF

V

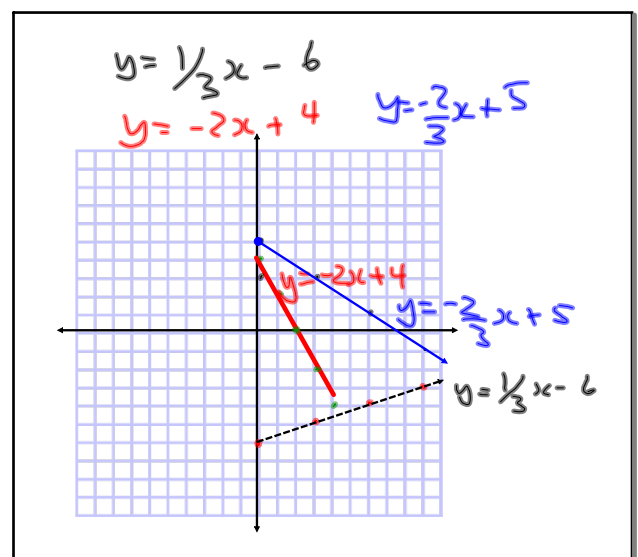
$\frac{s+t}{2}$

- Factoring
- Quad Formula
- Expansion

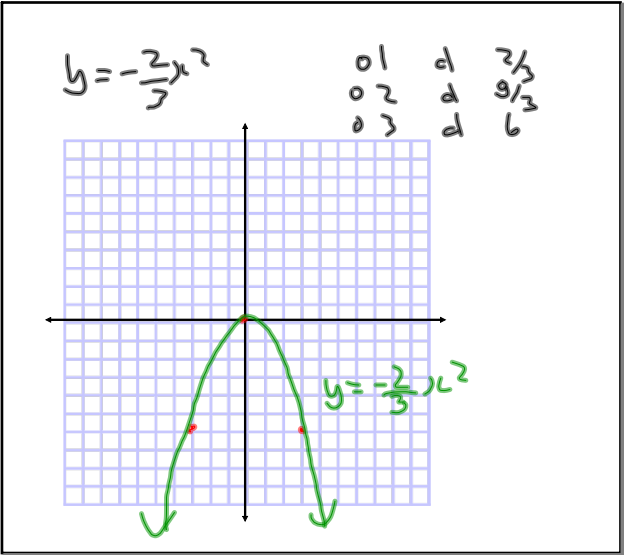
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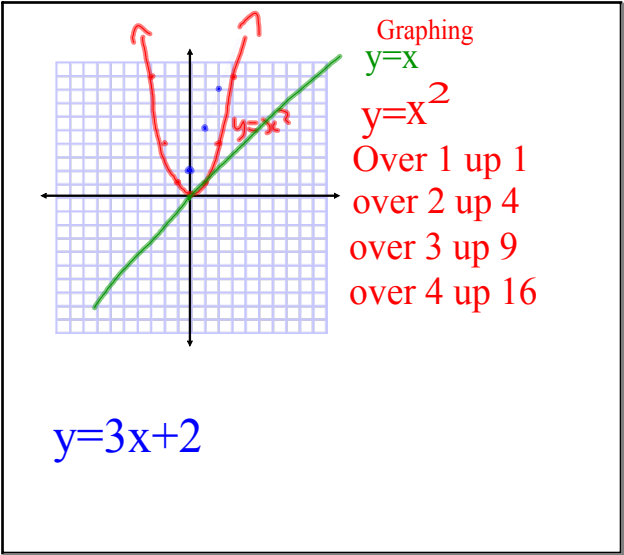
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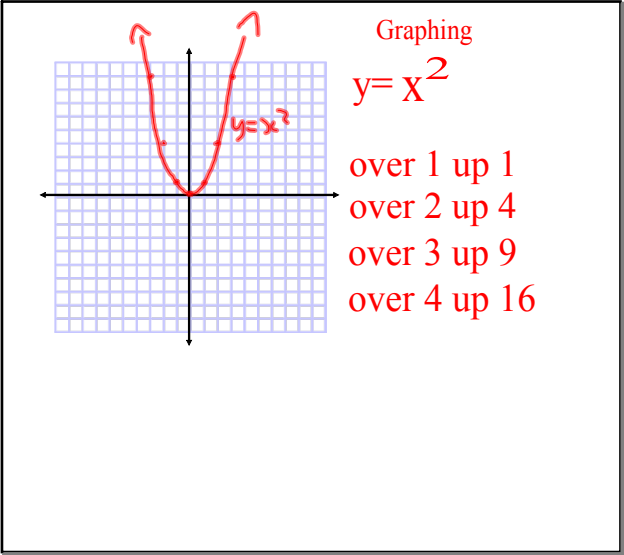
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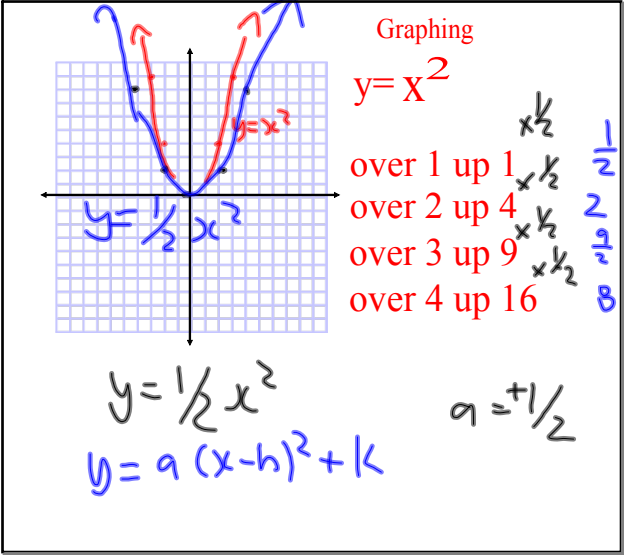
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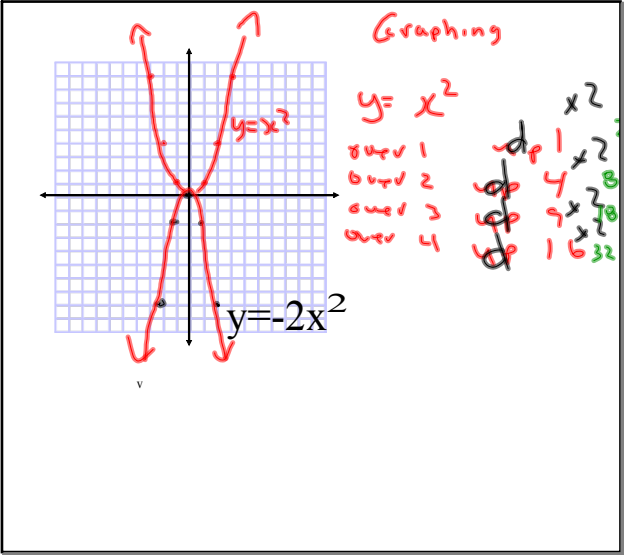
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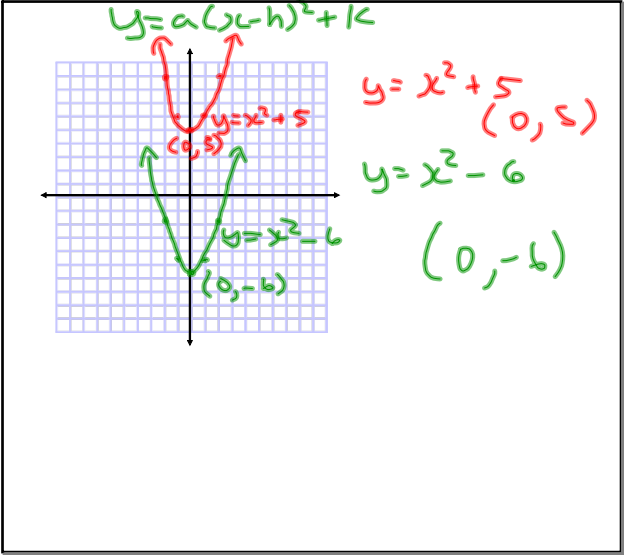
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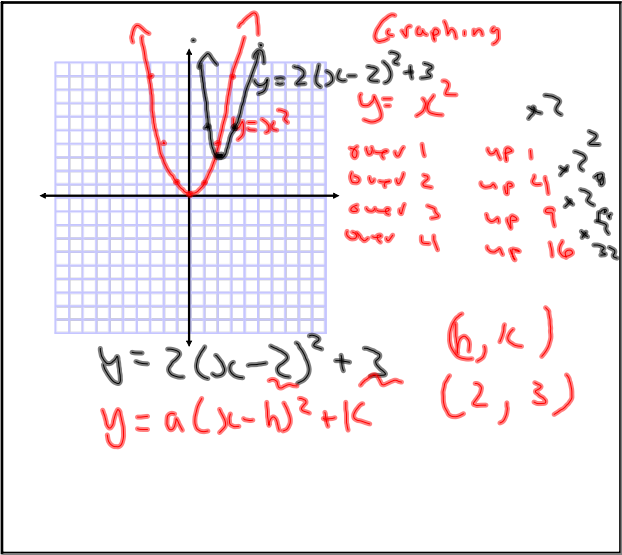
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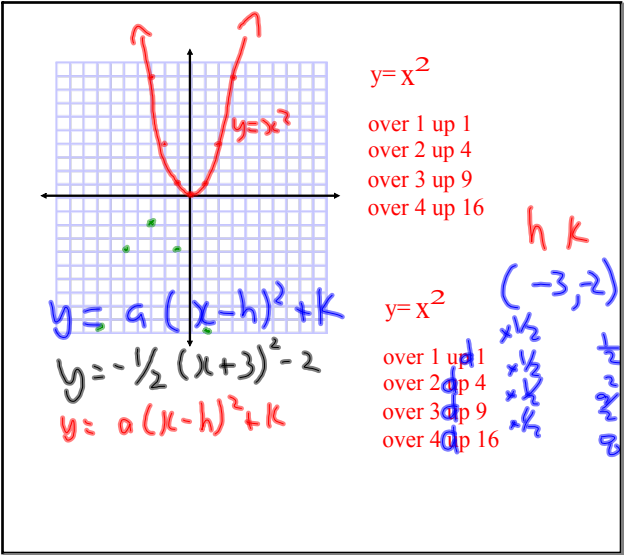
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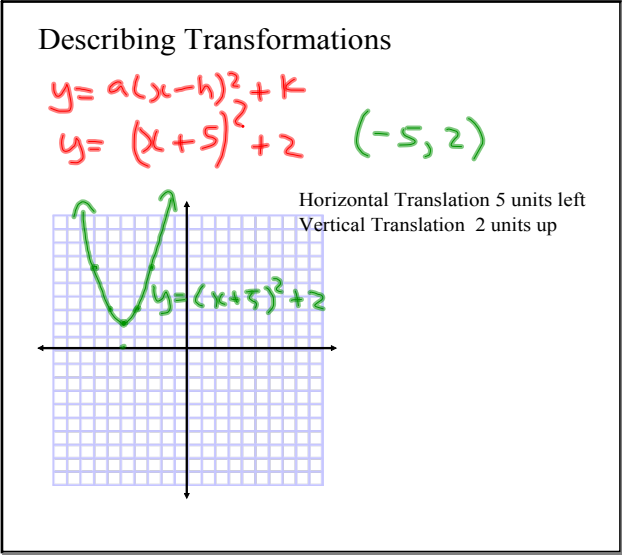
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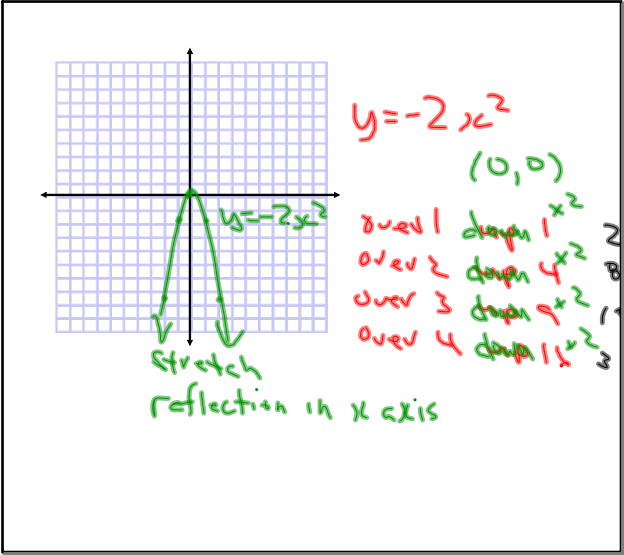
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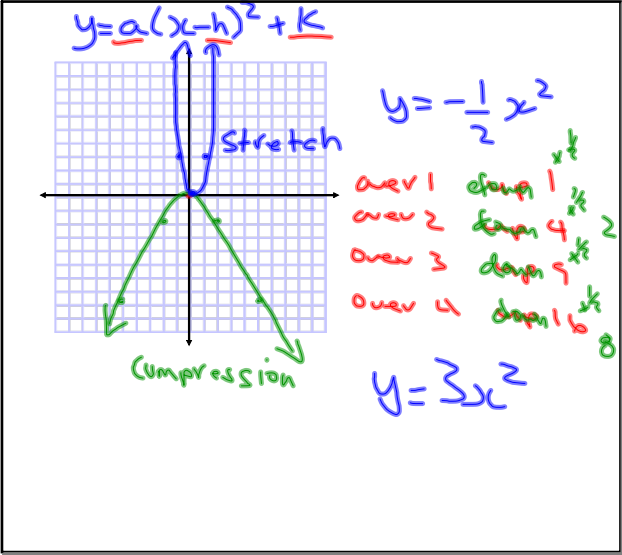
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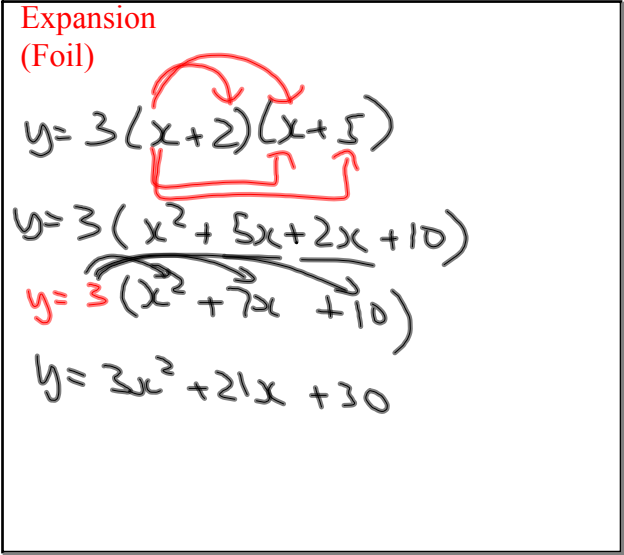
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Decomposition

$$y = x^2 + 7x + 12$$

$$y = \underline{x^2 + 3x} + 4x + 12$$

$$y = x(x+3) + 4(x+3)$$

$$y = (x+3)(x+4)$$

A	M
+7	+12
1	12
2	6
3	4

Feb 4-10:50 AM